



Class Loop Current Sensor

ELECTRICAL DATA/INPUT :

Primary Nominal R.M.S. Current Ir(A)	Primary Current Measuring Range Ip(A) at Vcc=5V	Part Name Type	Part Number
3~50	±Ir*3	CLFH-XXA-A4	CT035XXXXXXXX
Vcc	Supply Voltage		5V ±5%
Ic	Current Consumption		≤20mA +(Ir/2000)A
Iis	R.M.S. Voltage for 3.5KVAC Isolation test, 50/60Hz, 1min		<10mA
Ris	Isolation Resistance at 500 VDC		>500Mohm
CR	Conversion ratio		1:2000

ELECTRICAL DATA/OUTPUT

Vout	Output voltage at Ir , TA=25°C	Voe±0.625V
CL	Output Load Capacitor	<10nF@Vout~GND
RL	Load Resistor	>2Kohm
X	Accuracy at Ir , TA=25°C (without offset)	<±0.5%
Voe	Electrical Offset Voltage , TA=25°C	2.5V±0.5%
Vom	Magnetic Offset Voltage (Ir→0)	<±5mV
Vot	Thermal Drift of (Offset-Reference) Voltage	<±0.4mV/°C
Tr	Response Time to 90% of Ir(f=1KHz)	<1us
FB	Frequency Bandwidth (-3dB)	200KHz
di /dt	Accurately Followed	>100A/us
dCp	Creepage Distance (on case)	16.9mm
Vref	Reference voltage(the minimal impedance loading the ref pin should be > 220k ohm)	2.5V±0.5%

GENERAL DATA :

TA	Ambient Operating Temperature	-40 ~ +85°C
Ts	Ambient Storage Temperature	-40 ~ +105°C

Output voltage v.s. Input current: Ex: Irms=25A ; Ip=25*3=75A, Vcc=5V(Single power)



